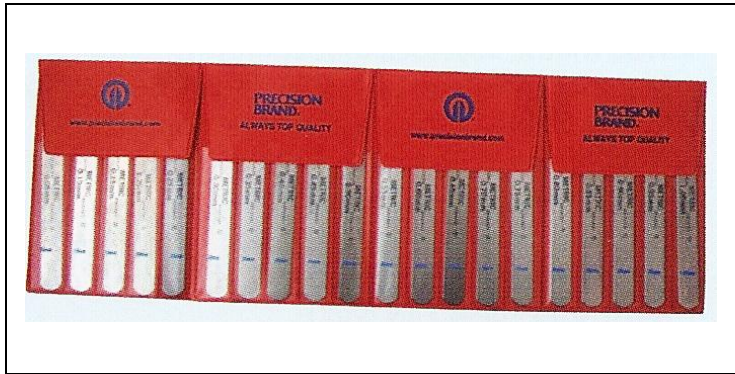


Precision Brand Steel Feeler Gauge Assortments

Poc-Kit Metric Assortment 5” Long Blades: 77-109-740



Contains 20 x 1/2” wide blades x 5” long  
 Blades clearly etched with metric sizes  
 Blades have rounded ends and smooth edges for safety  
 Range: 0.05mm – 1.00mm in 0.05mm steps

Accuracy Specifications

Thickness	Tolerance
0.05mm	± 0.003mm
0.10mm	± 0.004mm
0.15mm	± 0.005mm
0.20mm	± 0.006mm
0.25 – 0.30mm	± 0.007mm
0.35mm	± 0.008mm
0.40 – 0.45mm	± 0.009mm
0.50 – 0.60mm	± 0.010mm
0.65mm – 0.75mm	± 0.012mm
0.80 – 0.95mm	± 0.013mm
1.00mm	± 0.017mm
Width	± 0.127mm

Material:

C-1095 Close Grain High Carbon Spring Steel

Carbon	0.87-1.10
Phosphorus	0.036 Max
Silicon	0.10-0.33
Manganese	0.27-0.53
Sulphur	0.050 Max
Temper	Spring
Hardness	48-62 HRC
Meets Specifications	FED-GGG-G-17C For length and thickness only ASTM A-682

Packed Weight and Dimensions

Code	Weight g	W mm	H mm	L mm
77-109-740	189	125	8	190

Precision Brand Steel Feeler Gauge Assortments

Poc-Kit Inch Assortment 5" Long Blades: 77-119-740



Contains 20 x 1/2" wide blades x 5" long  
 Blades clearly etched with Inch and Metric sizes  
 Blades have rounded ends and smooth edges for safety

Sizes:

0.001" / 0.025mm	0.010" / 0.224mm
0.0015" / 0.038mm	0.012" / 0.318mm
0.002" / 0.051mm	0.014" / 0.356mm
0.003" / 0.076mm	0.015" / 0.381mm
0.004" / 0.102mm	0.016" / 0.406mm
0.005" / 0.127mm	0.018" / 0.457mm
0.006" / 0.152mm	0.020" / 0.508mm
0.007" / 0.178mm	0.022" / 0.559mm
0.008" / 0.203mm	0.024" / 0.610mm
0.009" / 0.229mm	0.025" / 0.635mm

Accuracy Specifications:

Thickness Inch	Tolerance
0.001"	± 0.00012"
0.0015 – 0.007"	± 0.00020"
0.008 – 0.009"	± 0.00025"
0.010 – 0.012"	± 0.00035"
0.013 – 0.015"	± 0.00043"
0.016 – 0.019"	± 0.00047"
0.020 – 0.024"	± 0.00055"
0.025 – 0.031"	± 0.00067"
0.032 – 0.034"	± 0.00075"
0.040"	± 0.00094"
0.050"	± 0.0005"
Width	± 0.005"

Material:

C-1095 Close Grain High Carbon Spring Steel

Carbon	0.87-1.10
Phosphorus	0.036 Max
Silicon	0.10-0.33
Manganese	0.27-0.53
Sulphur	0.050 Max
Temper	Spring
Hardness	48-62 HRC
Meets Specifications	FED-GGG-G-17C For length and thickness only ASTM A-682

Packed Weight and Dimensions

Code	Weight g	W mm	H mm	L mm
77-119-740	128	125	8	190

Precision Brand Steel Feeler Gauge Assortments

Poc-Kit Inch Assortment 12" Long Blades: 77-119-990



Contains 20 x 1/2" wide blades x 12" long  
 Blades clearly etched with Inch and Metric sizes  
 Blades have rounded ends and smooth edges for safety

Sizes:

0.001" / 0.025mm	0.010" / 0.224mm
0.0015" / 0.038mm	0.012" / 0.318mm
0.002" / 0.051mm	0.014" / 0.356mm
0.003" / 0.076mm	0.015" / 0.381mm
0.004" / 0.102mm	0.016" / 0.406mm
0.005" / 0.127mm	0.018" / 0.457mm
0.006" / 0.152mm	0.020" / 0.508mm
0.007" / 0.178mm	0.022" / 0.559mm
0.008" / 0.203mm	0.025" / 0.635mm
0.009" / 0.229mm	0.030" / 0.762mm

Accuracy Specifications:

Thickness Inch	Tolerance
0.001"	± 0.00012"
0.0015 – 0.007"	± 0.00020"
0.008 – 0.009"	± 0.00025"
0.010 – 0.012"	± 0.00035"
0.013 – 0.015"	± 0.00043"
0.016 – 0.019"	± 0.00047"
0.020 – 0.024"	± 0.00055"
0.025 – 0.031"	± 0.00067"
0.032 – 0.034"	± 0.00075"
0.040"	± 0.00094"
0.050"	± 0.0005"
Width	± 0.005"

Material:

C-1095 Close Grain High Carbon Spring Steel

Carbon	0.87-1.10
Phosphorus	0.036 Max
Silicon	0.10-0.33
Manganese	0.27-0.53
Sulphur	0.050 Max
Temper	Spring
Hardness	48-62 HRC
Meets Specifications	FED-GGG-G-17C For length and thickness only ASTM A-682

Packed Weight and Dimensions

Code	Weight g	W mm	H mm	L mm
77-119-990	292	125	8	355

## Precision Brand Steel Feeler Gauge Assortments

Page 4 of 6

## Material Safety Data Sheet



## MATERIAL SAFETY DATA SHEET

Common Name:	Hardened & Tempered Carbon Steel	
Trade Name(s):	Blue Temper Shim	Product Code: 23
	Feeler Gage (Steel only)	09 & 19
	Shoulder Screw Shims	26
	Die Button Shims	26

Manufacturer	Phone number (for information)
Precision Brand Products, Inc.	(630) 969-7200
2250 Curtiss Street	Emergency Phone Number
Downers Grove IL 60515 USA	<b>Chemtrec 800-424-9300 USA &amp; Canada 202-483-7616 International</b>
Date prepared: January 1, 2001	Date Reviewed: January 15, 2008

## 1. INGREDIENTS

Material or Component	% Weight	Exposure Limits	
		OSHA PEL (mg/m <sup>3</sup> )	ACGIH TLV (mg/m <sup>3</sup> )
<b>Base Metal</b>			
Iron (Fe)	Balance	10 (Fe <sub>2</sub> O <sub>3</sub> Fume)	5.0 (Fe <sub>2</sub> O <sub>3</sub> Fume)
<b>Alloying Elements</b>			
Aluminum (Al)	0.10 – 1.8	None listed	5.0 as welding fume
Carbon (C)	0.01-1.5	None listed	None Listed
Chromium (Cr)	0.01-1.2	1.0 as chrome	0.5 as chrome
Cobalt (Cb)	8 Max.	0.1 as cobalt & fume	0.05 as fume
Copper (Cu)	0.04-0.7	0.02 as copper, 1.0 as dust	0.2 as fume & 1.0 as dust
Lead (Pb)	0.15-0.35	0.05 as fume & dust	0.15 as dust & fume
Manganese (Mn)	0.05-2.0	5 as manganese	5 as dust & 1 as fume
Molybdenum (Mb)	0.01-1.10	15 as insoluble compounds	1.0 as insoluble compounds
Nickel (Ni)	0.01-1.0	1.0 as nickel	1.0 as nickel
Phosphorous (P)	0.15 Max.	0.1 as phosphorous	0.1 as phosphorous
Silicon (Si)	0.15-2.20	None listed	10 total dust
Sulfur (S)	0.001-0.35	13 sulfur dioxide	5 sulfur dioxide
Tungsten (W)	0-18	None listed	5 insoluble compounds
Vanadium (V)	0.01-10	0.5 dust & 0.1 fume	0.05 dust & fume
Zinc (Zn) coating	10 Max.	5.0 as fume	5.0 as fume

Note: The above listing is a summary of elements used in alloying steel. Various grades of steel will contain different combinations of these elements. Trace elements may also be present in minute amounts.

## 2. PHYSICAL DATA

Material is (at normal conditions):	Appearance and Odor:		
<input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Gas <input type="checkbox"/> Other	Gray-Black with Metallic Luster - Odorless		
Acidity/Alkalinity: pH = NA	Specific Gravity (H <sub>2</sub> O=1):	7	
Melting Point: Approx. 2750°F	Solubility in Water (% by wt):	NA	
Boiling Point: NA	Vapor Pressure (mm Hg @ 20°C)	NA	

## Precision Brand Steel Feeler Gauge Assortments

## Material Safety Data Sheet

Precision Brand Products, Inc. MSDS: Hardened &amp; Tempered Carbon Steel

**3. PERSONAL PROTECTIVE EQUIPMENT**

Respiratory Protection:	NIOSH approved dust/mist/fume respirator should be used during welding or burning if OSHA PEL or TLV is executed.
Eyes & Face:	Safety glasses should always be worn when grinding or cutting; face shields should be worn when welding or burning.
Hands, Arms & Body:	Use appropriate protective clothing such as welder's aprons & gloves when welding or burning.
Other Clothing and Equipment:	As Required

**4. EMERGENCY MEDICAL PROCEDURES**

Inhalation:	Remove to fresh air. If condition continues, consult physician.
Eye Contact:	Immediately flush well with running water to remove particulate; get medical attention.
Skin Contact:	If irritation develops, remove clothing and wash well with soap and water. If condition persists, seek medical attention.
Ingestion:	If significant amounts of metal are ingested, seek medical attention.

**5. HEALTH/SAFETY INFORMATION**

Steel products in the natural state do not present an inhalation, ingestion, or contact health hazard. However, operations such as welding, burning, sawing, brazing, grinding, and possibly machining, which result in elevating the temperature of the product to or above its melting point or result in the generation of airborne particulate may present hazards. The above operations should be performed in well ventilated areas. The major exposure hazard is inhalation.

*Effects of Overexposure*

**Acute:** Excessive inhalation of all metallic fumes and dusts may result in irritation of the eyes, nose, and throat. Also, high concentrations of fumes and dusts of iron-oxide, manganese, copper, and selenium may result in metal fume fever. Typical symptoms consist of a metallic taste in the mouth, dryness and irritation of the throat, chills and fever, usually lasting from 12 to 48 hours.

**Chronic:** Chronic and prolonged inhalation of high concentrations of fumes or dust of the following elements may lead to the conditions listed opposite the element:

**Iron (Iron-oxide):** Pulmonary effects, siderosis.

**Manganese:** Bronchitis, pneumonitis, lack of coordination.

**Chromium:** Various forms of dermatitis, inflammation and/or ulceration of upper respiratory tracts, and possibly cancer of nasal passages and lungs. Based on available information, there does not appear to be any evidence that exposure to welding fume induces human cancer.

**Nickel:** Same as Chromium

**Selenium:** Nasal and bronchial irritation, gastro-intestinal disturbances, garlic odor of breath.

**Copper:** Pulmonary effects

**Vanadium:** No reported cases of exposure to vanadium.

**Molybdenum:** Pain in joints, hands and feet.

Occupational Exposure Limits | See section 1.

**FIRE AND EXPLOSION**

Flash Point:	NA	Flammable Limits in Air:	Lower: NA
Autoignition Temperature	NA		Upper: NA
Fire & Explosion Hazards	None	Extinguishing Media	NA
		Extinguishing Media Not to be used	NA

**REACTIVITY**

Stability:	Stable	Incompatibility (Materials to avoid)	Reacts with strong acids to form hydrogen gas
Conditions to Avoid:	Non-ventilated areas when cutting, welding, burning, or brazing. Avoid generation of airborne dusts and fumes.		
Hazardous Decomposition Products	Metallic Oxides.		

## Material Safety Data Sheet

Precision Brand Products, Inc. MSDS: Hardened & Tempered Carbon Steel

<b>6. ENVIRONMENTAL</b>	
Spill or Leak Procedures:	NA
Special Precautions:	Use good housekeeping practices to prevent accumulation of dust and to keep airborne dust to a minimum.
Waste Disposal Method	Dust, etc. – follow federal, state, and local regulations regarding disposal.

NOTE: The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Precision Brand Products, Inc. makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular period. Accordingly, Precision Brand Products, Inc. will not be responsible for damages of any kind resulting from the use of or reliance upon such information. NO REPRESENTATIONS, OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER TO WHICH THE INFORMATION REFERS. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.